

Kim M Baines

List of Publications by Year in descending order

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98
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2,749
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172443

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docs citations

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times ranked

1461
citing authors

#	ARTICLE	IF	CITATIONS
19	Reaction of Group 14 Dimetallenes with Alkenes: σ -Electron-Rich Alkenes. <i>Organometallics</i> , 1996, 15, 5701-5705.	2.3	42
20	A chlorine-free protocol for processing germanium. <i>Science Advances</i> , 2017, 3, e1700149.	10.3	41
21	Cyclopropyl Alkynes as Mechanistic Probes To Distinguish between Vinyl Radical and Ionic Intermediates. <i>Journal of Organic Chemistry</i> , 2005, 70, 2686-2695.	3.2	40
22	Reactivity Studies of N-Heterocyclic Carbene Complexes of Germanium(II). <i>Organometallics</i> , 2010, 29, 4871-4881.	2.3	40
23	Photolysis of acylpolysilanes containing α -hydrogens. Formation of linear head-to-head silene dimers. <i>Organometallics</i> , 1987, 6, 692-696.	2.3	38
24	Cationic Cryptand Complexes of Tin(II). <i>Inorganic Chemistry</i> , 2012, 51, 7306-7316.	4.0	33
25	A Review on Chemical Advanced Oxidation Processes for Pharmaceuticals with Paracetamol as a Model Compound. Reaction Conditions, Intermediates and Total Mechanism. <i>Current Organic Chemistry</i> , 2018, 22, 2-17.	1.6	33
26	Mechanistic Studies of the Addition of Carbonyl Compounds to Tetramesityldigermene. <i>Journal of the American Chemical Society</i> , 2003, 125, 12702-12703.	13.7	32
27	Addition of a Cyclopropyl Alkyne to Tetramesityldisilene: Δ Evidence for a Biradical Intermediate and Formation of a Stable 1,2-Disilacyclohepta-3,4-diene. <i>Organometallics</i> , 2005, 24, 3811-3814.	2.3	32
28	5-(Arylamino)-1,2,3-triazoles and 5-amino-1-aryl-1,2,3-triazoles from 3-(cyanomethyl)triazenes. <i>Journal of Organic Chemistry</i> , 1981, 46, 856-859.	3.2	31
29	Addition of Cyclopropyl Alkynes to a Brook Silene: Δ Definitive Evidence for a Biradical Intermediate. <i>Journal of the American Chemical Society</i> , 2006, 128, 2491-2501.	13.7	31
30	Mechanistic Studies of the Addition of Carbonyl Compounds to Tetramesityldisilene and Tetramesitylgermasilene. <i>Organometallics</i> , 2003, 22, 1603-1611.	2.3	30
31	Nanosecond Laser Flash Photolysis Studies of the Photochemistry of Dimesitylgermylene Precursors. <i>Organometallics</i> , 1996, 15, 3732-3736.	2.3	28
32	The addition of carbonyl compounds to tetramesitylgermasilene and dimesitylgermylene. <i>Heteroatom Chemistry</i> , 1994, 5, 293-303.	0.7	27
33	The addition of oxygen to tetramesityldigermene. <i>Journal of Organometallic Chemistry</i> , 2001, 636, 130-137.	1.8	27
34	Synthesis and Characterization of Cationic Low-Valent Gallium Complexes of Cryptand[2.2.2]. <i>Chemistry - A European Journal</i> , 2015, 21, 9790-9796.	3.3	27
35	The Reaction of Group 14 Dimetallenes with Alkenes: Δ Electron-Poor Alkenes. <i>Organometallics</i> , 1997, 16, 5437-5440.	2.3	25
36	Cycloaddition Reactions of Aldehydes to Tetramesityldisilene and Tetramesitylgermasilene: Δ Evidence for a Biradical Intermediate. <i>Journal of the American Chemical Society</i> , 1998, 120, 11049-11053.	13.7	25

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37	Addition of Methyl Grignard Reagents to Germasilenes and Digermenes: An Unusual Ligand Exchange Reaction of the Resulting Germyl Grignard Reagents. <i>Journal of the American Chemical Society</i> , 1998, 120, 10365-10371.	13.7	25
38	Addition of Chloroform to Tetramesityldigermene. <i>Organometallics</i> , 2001, 20, 590-592.	2.3	25
39	Determination of the rate constant for ring opening of an $\dot{\text{I}}\pm$ -cyclopropylvinyl radical. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 3530-3534.	2.8	25
40	The reactivity of an anionic gallium N-heterocyclic carbene analogue with a solution stable digermene. <i>Canadian Journal of Chemistry</i> , 2007, 85, 141-147.	1.1	24
41	Reaction between (chlorodimesitylsilyl)diarylgermanes and tert-butyllithium in THF: the formation of new germyllithium compounds. <i>Organometallics</i> , 1992, 11, 2176-2180.	2.3	23
42	Molecular structures of a siladigermirane and a cyclotrigermene. <i>Organometallics</i> , 1992, 11, 1408-1411.	2.3	23
43	Comparative Study of the Reactivity of Brook and Couret Silenes: Aldehyde Addition. <i>Organometallics</i> , 2007, 26, 2392-2401.	2.3	23
44	Crystal structures of four sterically crowded 1,3-disilacyclobutanes. <i>Organometallics</i> , 1989, 8, 709-716.	2.3	21
45	Addition polymerization of 1,1-dimesitylneopentylgermene: synthesis of a polygermene. <i>Chemical Communications</i> , 2008, , 2346.	4.1	20
46	Addition of alkynes to digermynes: experimental insight into the reaction pathway. <i>Dalton Transactions</i> , 2016, 45, 7226-7230.	3.3	18
47	Brook silenes: inspiration for a generation. <i>Chemical Communications</i> , 2013, 49, 6366.	4.1	17
48	Addition of Nitromethane to a Disilene and a Digermene: Comparison to Surface Reactivity and the Facile Formation of 1,3,2-Dioxazolidines. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1612-1615.	13.8	17
49	Addition of Phenylacetylene to Germasilenes. <i>Organometallics</i> , 1999, 18, 2206-2209.	2.3	16
50	The addition of alkynes to a tetrasilyldisilene – Evidence for a biradical intermediate. <i>Canadian Journal of Chemistry</i> , 2005, 83, 1568-1576.	1.1	16
51	Reactivity of a Germene toward Terminal Alkynes: Competition between Cycloaddition, Ene-Addition, and CH-Insertion. <i>Organometallics</i> , 2011, 30, 2261-2271.	2.3	16
52	Improved Synthesis of 1,2-Dichlorotetramesityldigermene and Other Mesitylgermanes. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 1996, 26, 1205-1217.	1.8	15
53	Addition Polymerization of 1,1-Dimesitylneopentylsilene: Synthesis of a Polysilene. <i>Chemistry of Materials</i> , 2008, 20, 5948-5950.	6.7	15
54	A mechanistic study of the addition of alkynes to Brook silenes. <i>Canadian Journal of Chemistry</i> , 2009, 87, 307-313.	1.1	15

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55	Tetrakis(trimethylgermyl)silane and tris(trimethylgermyl)silyllithium. Canadian Journal of Chemistry, 1992, 70, 2884-2886.	1.1	14
56	The addition of organometallic reagents to tetramesityldigermene. Canadian Journal of Chemistry, 2002, 80, 1387-1392.	1.1	14
57	Addition of Aldehydes to Germenes: The Influence of Solvent. Organometallics, 2011, 30, 3010-3017.	2.3	14
58	The Addition of Nitriles to a Molecular Digermene: Reversible Addition and Comparison to Surface Reactivity. Angewandte Chemie - International Edition, 2015, 54, 6600-6603.	13.8	14
59	2-(Fluoro-) and 2-(methoxyanilino)-1,4-naphthoquinones. Synthesis and mechanism and effect of fluorine substitution on redox reactivity and NMR. Journal of Fluorine Chemistry, 2015, 180, 152-160.	1.7	14
60	Photocatalytic degradation of β -blockers in TiO ₂ with metoprolol as model compound. Intermediates and total reaction mechanism. Catalysis Today, 2019, 323, 14-25.	4.4	14
61	Solid-State ⁷³ Ge NMR Spectroscopy of Simple Organogermenes. Chemistry - A European Journal, 2012, 18, 13770-13779.	3.3	13
62	The addition of terminal alkynes to dimesitylfluorenylidengermane. Canadian Journal of Chemistry, 2014, 92, 462-470.	1.1	13
63	Photoelectron Spectra of Organometallic Compounds Containing Silicon-Silicon and Silicon-Germanium Bonds: Valence Band Studies. Organometallics, 1994, 13, 3671-3678.	2.3	12
64	Mechanism of the addition of alkynes to silenes and germenes: A density functional study. Canadian Journal of Chemistry, 2015, 93, 134-142.	1.1	12
65	Beyond Oxidation States: Distinguishing Chemical States of Gallium in Compounds with Multiple Gallium Centers. Inorganic Chemistry, 2017, 56, 2985-2991.	4.0	12
66	Complex rearrangements of polysilylacylsilanes from treatment with titanium tetrachloride. Organometallics, 1993, 12, 4259-4261.	2.3	11
67	Reactivity of a Polar Silene toward Terminal Alkynes: Preference for C ^δ -H Insertion over Cycloaddition. Organometallics, 2010, 29, 5972-5981.	2.3	11
68	Chlorine-35 Solid-State NMR Spectroscopy as an Indirect Probe of Germanium Oxidation State and Coordination Environment in Germanium Chlorides. Inorganic Chemistry, 2014, 53, 7377-7388.	4.0	11
69	Chlorine-35 Solid-State Nuclear Magnetic Resonance Spectroscopy as an Indirect Probe of the Oxidation Number of Tin in Tin Chlorides. Inorganic Chemistry, 2020, 59, 13651-13670.	4.0	11
70	Selective dimerization of β -methylstyrene by tunable bis(catecholato)germane Lewis acid catalysts. Dalton Transactions, 2021, 50, 15906-15913.	3.3	11
71	The Addition of Nitriles to Tetramesityldisilene: A Comparison of the Reactivity between Surface and Molecular Disilenes. Chemistry - A European Journal, 2015, 21, 2480-2488.	3.3	10
72	Structure and bonding of organosilicon compounds containing silicon-silicon and silicon-germanium bonds: an X-ray absorption fine structure study. Canadian Journal of Chemistry, 1996, 74, 2229-2239.	1.1	9

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73	Probing the Mechanism of Aldehyde Addition to a Disilene and Two Silenes: Solvent Effects. <i>Organometallics</i> , 2010, 29, 1305-1308.	2.3	9
74	Addition of Isocyanides to Tetramesityldigermene: A Comparison of the Reactivity between Surface and Molecular Digermenes. <i>Chemistry - A European Journal</i> , 2016, 22, 14006-14012.	3.3	9
75	The Addition of a Cyclopropyl Alkyne to an Asymmetrically-Substituted Disilene: A Mechanistic Study. <i>Organometallics</i> , 2019, 38, 1622-1626.	2.3	9
76	Bis(trimethylsilyl)methanesulfonyl and tris(trimethylsilyl)methanesulfonyl chlorides and their reactions by way of sulfenes. <i>Canadian Journal of Chemistry</i> , 2000, 78, 1642-1646.	1.1	8
77	Synthesis of novel 2-(fluoroanilino)-3-(2,4-dinitroanilino) derivatives of 1,4-naphthoquinone. <i>Tetrahedron Letters</i> , 2015, 56, 5248-5251.	1.4	8
78	The two-parameter linear free energy treatment of the substituent effects on the half-wave reduction potentials and n,1€ triplet energies of aromatic ketones. A test of the validity of the approach. <i>Tetrahedron Letters</i> , 1981, 22, 909-912.	1.4	7
79	Open-chain nitrogen compounds. Part IV. Synthesis of 5-hydroxy-1,2,3-triazoles from 1-aryl-3-(ethoxycarbonylmethyl)triazenes: a new route to 1±-diazo-N-arylacetamides. <i>Canadian Journal of Chemistry</i> , 1983, 61, 1549-1556.	1.1	7
80	Laser Ablation of Hexamesitylcyclotrigermene and Hexamesitylcyclosiladigermene in a Molecular Beam. <i>Organometallics</i> , 2002, 21, 2438-2443.	2.3	7
81	THE SYNTHESIS AND CHARACTERIZATION OF THE CYCLOTRIGERMOXANE: (Ph4C4GeO)3. <i>Main Group Metal Chemistry</i> , 2001, 24, 823-828.	1.6	6
82	Steady-state photolysis of dimesitylbis(trimethylsilyl)germane. <i>Canadian Journal of Chemistry</i> , 2007, 85, 668-674.	1.1	6
83	The Diverse Reactivity of Disilenes Toward Isocyanides. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3167-3172.	13.8	6
84	The photolysis of Si,Si-di-tert-butyltetramesitylsiladigermirane in the presence of methylmagnesium iodide. <i>Canadian Journal of Chemistry</i> , 2000, 78, 1474-1478.	1.1	5
85	Characterisation of Germanium Monohalides by Solid-State NMR Spectroscopy and First Principles Quantum Chemical Calculations. <i>Australian Journal of Chemistry</i> , 2013, 66, 1202.	0.9	5
86	Addition of Organometallic Reagents to a Stable Silene and Germene. <i>Organometallics</i> , 2015, 34, 3748-3755.	2.3	5
87	Synthesis and Reactivity of Cationic Gallium(I) [12]Crown-4 Complexes. <i>Inorganic Chemistry</i> , 2021, 60, 14713-14720.	4.0	5
88	On the primary structure of polysilenes and polygermenes. <i>Polymer Chemistry</i> , 2019, 10, 4887-4894.	3.9	4
89	Reactivity of sulfonyl-containing compounds with ditetrelenes. <i>Dalton Transactions</i> , 2017, 46, 15451-15457.	3.3	3
90	Bis(trimethylsilyl)methanesulfonyl and tris(trimethylsilyl)methanesulfonyl chlorides and their reactions by way of sulfenes: Addendum. <i>Canadian Journal of Chemistry</i> , 2001, 79, 461.	1.1	2

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91	Synthesis of a new siladigermirane via an intramolecular reductive cyclization. <i>Silicon Chemistry</i> , 2002, 1, 1-21.	0.8	2
92	Addition of Nitriles to Two Brook Silenes. <i>Organometallics</i> , 2011, 30, 2831-2837.	2.3	2
93	NH bond activation of ammonia and amines by ditetrelenes: key insights into the stereochemistry of nucleophilic addition. <i>Dalton Transactions</i> , 2021, 50, 17734-17750.	3.3	2
94	Direct patterning of polysilanes and polygermanes using interference lithography. <i>Applied Organometallic Chemistry</i> , 2011, 25, 665-668.	3.5	1
95	The Diverse Reactivity of Disilenes Toward Isocyanides. <i>Angewandte Chemie</i> , 2019, 131, 3199-3204.	2.0	1
96	Identification of intermediate compounds and photodegradation mechanisms of omeprazole under the system UV/O ₂ . <i>Journal of Physical Organic Chemistry</i> , 2020, 33, e4024.	1.9	1
97	Cycloaddition Reactions of Group 14 Ddiatallenes: Evidence for a Radical Pathway. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1997, 124, 123-132.	1.6	0
98	Silylamination of electrophilic alkynes. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2022, 197, 7-12.	1.6	0